

ACC NR: AP7004632

derived for determining the momentum imparted to the gas by the charged particles per unit of time, the azimuthal velocity of the gas, the axial velocity component, and the total velocity of the gas. In addition, depending on induction and gas discharge, the slope of the gas flow, thermal characteristics of the plasma jet, and the energy balance of the plasmatron were determined experimentally. The spectral measurement of the temperature of a plasma stream of hydrogen was performed by S. Kh. Akhmetova. Orig. art. has: 8 formulas, 5 figures, and 1 table.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 007

Card 2/2

KULAGIN, I. I.; BRYKOVA, Z. I.

Medical Instruments and Apparatus

Work experience of the ampoule shop at the N. A. Semashko Plant. Med. prom. no. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

PA 11T1

KULAGIN, I.

USSR/Aircraft, Jet Propelled  
Jet engines

Feb 1947

"Aircraft Jet Propulsion Engines," I. Kulagin, 10 pp

"Vestnik Vozdushnogo Flota" Vol XXIX, No 2

Discusses the fundamental principles of the system, traction characteristics, economy, specific weight and forward pull, accelerating the TKVRD and increasing its economy. Deals with the TKVRD, PVRD, PuVRD, KVRD and VMU engines, giving 13 graphs of operating data and various mathematical formulae.

11T1

KULAGIN, I.

PA 6876

USSR/Aeronautics  
Jet Engines  
Rocket Motors

Apr 1948

"Our Nation - The Birthplace of Rocket and Jet Technology," Col I. Kulagin, Engr, Cand Tech Sci, 6 pp

"Vest Vozdukh Flota" No 4 (350)

USSR again leads nations of world in field of discovery. As early as 1927 Tsiolkovskiy set up plans for a laboratory in which rocket motors could be built and tested. This also holds true for jet engines. Author closes with statement that since Russia was first to study rocket motors, Soviet pilots are leaders in field of jet plane maneuvers.

FDB

6876

KULAGIN, I.I.  
PHASE I.

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 204-I

BOOK

Author: KULAGIN, I.I., Professor, Doctor of Technical Science  
Full Title: Theory of Gas Turbine Reaction Engines  
Transliterated Title: Teoriya gazoturbinnnykh reaktivnykh dvigateley  
Publishing Data

Originating Agency: None

Publishing House: State Publishing House of the Defense Industry (Oborongiz)

Date: 1952

No. pp: 336

No. of copies: Not given

Editorial Staff:

Editor: None

Editor-in-Chief: None

Others: Thanks for valuable assistance are expressed to Kazandzhan, P.K.,  
Dotsent, and Tyutyunov, V.A., Engineer

Tech. Ed.: None

Appraiser: None

Text Data

Coverage: This is a textbook written in accordance with the program of a course on the theory of gas turbine reaction engines. The author first outlines the basic information on thermodynamics and dynamics of gases, and then considers the operational processes and calculations of reaction turbine engines (RTE), and of their main components such as compressors, combustion chambers, impellers, and exhaust nozzles. Characteristics of RTE, of turbo-propellor engines, and of RTE with ducted fan and thrust augmenters are also included. During the first

1/2

Teoriya gazoturbinnykh reaktivnykh dvigateley

AID 204-I

perusal of the book no special or original features were noticed.  
However, the book contains many varied topics and therefore further study might be advisable.

Purpose: Approved as a textbook for technical schools of motor construction.  
It can be used by aviation technicians and also as a manual for persons interested in the theory of gas turbine reaction engines, who did not have a previous special technical education.

Facilities: 20 names of scientists and inventors mentioned in the historical introduction.

No. of Russian and Slavic References: 3 prior to 1939, 13 after this date.

Available: Library of Congress

2/2

KULAGIN, Ivan Ivanovich, professor, doktor tekhnicheskikh; TYUTYUNOV,  
V.A., inzhener, retsenzent; KVASNIYOV, L.A., dotsent, kandidat  
tekhnicheskikh nauk, redaktor; SOKOLOV, A.I., inzhener, redaktor;  
BOGOMOLOVA, M.F., redaktor; ZUDAKIN, I.M., tekhnicheskii redaktor.

[Theory of turbojet airplane engines] Teoriia aviatsionnykh gazo-  
turbinnnykh dvigatelei. Izd. 2-e, ispr. i dop. Moskva, Gos.izd-vo  
oboronnoi promyshlennosti, 1955. 406 p. (MLRA 8:10)  
(Airplanes--Turbojet engines)

I. I. KULAGIN

Teoriya aviatsionnykh gazoturbinnnykh dvigateley ( Theory of Aircraft Gas Turbine Engines). 1955, 497 p.

p. 189-205.



*Kulagin, I. I.*

AID P - 4655

Subject : USSR/Aeronautics - bibliography

Card 1/1 Pub. 135 - 21/26

Author : Kulagin, I. I., Eng.-Col.

Title : Textbook on aviation gas-turbine engines

Periodical : Vest. vozd. flota, 5, 86-87, My 1956

Abstract : Critical review of the textbook "Aviation gas-turbine engines" by N. V. Inozemtsev, published by the Publishing House of the Defense Industry, Moskva, 1955, 352 pages.

Institution : None

Submitted : No date

AID P - 5139

Subject : USSR/Aeronautics - education

Card 1/1 Pub. 135 - 24/26

Authors : Pyshnov, V. S., Hon. scientist, I. I. Kulagin, Dr.  
of techn. sci. and others.

Title : Central museum for the Air Force

Periodical : Vest. vozd. flota, 10, 87-88, 0 1956

Abstract : It is suggested by a number of scientists that the Air  
Force should have its own central museum.

Institution : None

Submitted : No date

KULAGIN, I.I.

"Theory of turbojet airplane engines." Vest.Vozd.Fl.38 no.2:88 P '56.  
(Airplanes--Turbojet engines) (MLRA 9:7)

26(3A, 4)

PHASE I BOOK EXPLOITATION

SOV/1398

Kulagin, Ivan Ivanovich, Doctor of Technical Sciences, Professor  
Teoriya aviatsionnykh dvigateley (The Theory of Aviation Engines) 3d ed., rev.  
and enl. Moscow. Oborongiz, 1958. 478 p. 10,000 copies printed.

Ed.: Yanovskiy, I. L., Engineer; Ed. of Publishing House: Bogomolova, M. F.; Tech.  
Ed.: Pukhlikova, N. A.; Managing Ed.: Sokolov, A. I., Engineer.

PURPOSE: This book is approved by the Ministry of Higher Education, USSR, as a  
textbook for students of aviation tekhnikums. It may also be useful to workers  
specializing in aviation engineering.

COVERAGE: The book, which is the third edition of this title, contains materials for  
a general course in the theory of aviation engines of various types. It covers  
fundamentals of the theory, heat and gas dynamic analysis, special features of  
the working processes and characteristics of aircraft gas turbine engines (turbo-  
jets, turboprops, and double-flow turbojets) and their basic components; intake ap-  
paratus, compressors, combustion chambers, turbine and exhaust nozzles. The  
basic theory, operational conditions, and characteristics of light-fuel air-  
craft engines are also briefly described. The third edition contains a newly

Card 1/10

86-00513R0009273200

KVASNIKOV, Aleksandr Vasil'yevich, prof. Prinimala uchastiye KLOCHKOVA,  
L.L., starshiy prepodavatel'. KULAGIN, I.I., otv. (nauchnyy) red.;  
KRUGOVA, Ye.A., red.; ERASTOVA, N.V., tekhn. red.

[Theory of liquid propellant rocket engines] Teoriia zhidkostnykh  
raketnykh dvigatelei. Leningrad, Gos. soluznoe izd-vo sudostroita.  
promyshl. Pt. 1. 1959. 541 p. (MIRA 12:12)  
(Airplanes--Rocket engines)  
(Rockets--Aeronautics)

ZHIRITSKIY, Georgiy Sergeyevich, prof.; LOKAY, Viktor Iosifovich;  
MAKSUTOVA, Makhfuzya Karimovna; STRUNKIN, Valentin  
Aleksandrovich; GUROV, A.F., doktor tekhn. nauk, prof.,  
retsenzent; KHOLSHCHEVNIKOV, K.V., doktor tekhn. nauk,  
prof., retsenzent; KULAGIN, I.I., doktor tekhn. nauk, prof.,  
retsenzent; LEPESHINSKIY, I.A., inzh., red.; BOGOMOLOVA,  
M.F., red.izd-va; NOVIK, A.Ya., tekhn. red.

[Gas turbines of aircraft engines] Gazovye turbiny aviatsion-  
nykh dvigatelei. Moskva, Oborongiz, 1963. 604 p.

(MIRA 16:9)

(Gas turbines) (Aircraft Engines)

KULAGIN, I.K.,  
VAS'KOVSKIY, S.A.; GUTMAN, R.A.; KULAGIN, I.K.; MAKAROV, A.P.

Application of automatic seam welding in the railroad car  
industry. Zhel. der. transp. 38 no.11:28-31 N '56. (MLRA 9:12)

(Car wheels--Welding)

KULAGIN, I.K., kand. tekhn. nauk (Kiyev); RYABCHIY, V.P., inzh. (Kiyev)

Experience in operating rectifiers with compensation and generation of reactive power. Elek. i tepl. tiaga 3 no.1:32-33 Ja '59.  
(MIRA 12:2)

1. Nachal'nik sluzhby elektrifikatsii i energeticheskogo khozyaystva Yugo-Zapadnoy dorogi (for Kulagin).  
(Mercury-arc rectifiers)



KULAGIN, IVAN Stepanovich

1964

DECEASED

63

Wages -  
woodworking industry

SOV/107-59-4-40/45

↓(8)

AUTHOR: Kulagin, L.

TITLE: The Measuring of Sound Frequencies by the Dual Circular Scanning Method (Izmereniye zvukovykh chastot metodom dvoynoy krugovoy razvertki)

PERIODICAL: Radio, 1959, Nr 4, pp 57 - 58 (USSR)

ABSTRACT: The author suggests a method for measuring sound frequencies by an EO-7 oscillograph with dual circular scanning. The reference frequency voltage and the voltage to be investigated are applied at the deflection plates of the oscillograph after their phases were shifted by  $90^\circ$  in phase shifting devices, whereby two circular scans of opposite rotation direction are obtained. The sound frequency is determined according to the figures appearing on the screen of the oscillograph by the following formula:

Card 1/2

SOV/107-59-4-40/45

The Measuring of Sound Frequencies by the Dual Circular Scanning Method

$$\frac{F_1}{F_2} = \frac{N_1 - N_2}{N_2}$$

whereby  $F_1$  and  $F_2$  are the frequencies to be compared;  
 $N_1$  is the number of lobes of the figure;  $N_2 = m + 1$ ;  
 $m$  is the number of intersected lobes when the beam moves from one lobe to the other. The two circular scans are obtained by a simple additional unit whose circuit diagram is shown by Figure 3 and which is attached to the oscillograph. There are 4 photos, 1 graph and 1 circuit diagram.

Card 2/2

KULAGIN, L.V., kand. tekhn. nauk

Study of the operation of two-stage burners. Teploenergetika  
10 no.11:39-41 N '63. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta.

KULAGIN, L.V., inzh.

Determining the jet angle resulting from the flow of fuel  
from centrifugal pumps. Vest.TSNII MPS 18 no.2:40-44 Nr '59.  
(MIRA 12:6)

(Jets--Fluid dynamics)  
(Centrifugal pumps)

307, 195.

Sponsoring Agency: Vsesoyuznyy nauchno-issledovatel'skiy institut dlya razrabotki i transporta.

Eds. (Title page): Ye. T. Bartosh, Candidate of Technical Sciences, and A. V. Kas'yarov, Candidate of Technical Sciences; Ed. (Inside book): I. K. Prizhvalova; Tech. Ed.: P. A. Khitrov.

**PURPOSE:** This book is intended for engineering and technical personnel.

**COVER:** The book consists of 33 articles on the results of theoretical investigation of gas turbine units with two-stage fans; combustion, and on theoretical and laboratory investigations of air tank units and their components. Special sections of variable regimes of locomotive gas turbine engines and problems of fuel economy in locomotive and stationary units are discussed. In particular, are mentioned. References accompany some of the articles.

Bartosh, Yvonne Candidate of Technical Sciences, Flow Distribution  
in Clusters of Pipes

Yermolenko, A. M. Institute of Technical Sciences. Questioning of Self-Defence, 2000. Section Gasket Rings

Kna'yarov, A.V. Candidate of Technical Sciences, *Mag. 1966*, *1967*.  
Candidate of Technical Sciences, and *1968*, *1969*.  
Aerodynamic Investigation of Gas Turbine Compressor *1967*, *1968*, *1969*.

**Kiladze, J. V., Engineer. Determining Tolerances for the Dimensions of Centrifugal Fuel Nozzles**

**Chernomorduk, B.M.**, Engineer, Candidate of Technical Sciences, **U.S.S.R. Academy of Sciences**, Institute of Internal Combustion Engines, **Moscow**, U.S.S.R.

Proklov, S.P., Candidate of Technical Sciences. Experimental Investigation of Heat Exchange in Boiling on the Heating Surface of Channels.

Prostomak, S.I., Engineer. Investigation and Selection of Types of Steam Turbines for Small Electric Power Stations.

Sankhvalora, A.I., Engineer, Aerodynamics of the Combustion Chamber of a Jet-Layered Fire Box With Preheated Fuel Injection

Yokoyama, Yo. M., Engineer, Test Stand Director, Army and Navy  
in the Air Force - Gun Turbine Laboratory

AVAILABLE: LIBRARY OF CONGRESS

KULAGIN, L. V., inzh.

Methods for measuring dimensions of drops during atomization.  
Vzaim. i tekhn. izm v mashinostr.; mezhvuz. sbor. no. 2:442-462 '60.

(MIRA 13:8)

(Atomization--Measurement)

KULAGIN, L.V., inzh.

Effect of changes in the geometrical dimensions of the jet  
on the fineness of atomization. Vest. TSNII MPS 17 [i.e. 19]  
no.7: 28-31 '60. (MIRA 13:11)

(Fuel pumps)



KULAGIN, L. V., inzh.

Determining tolerances for the basic dimensions of swirlers. Trudy  
TSNII MPS no.187:127-138 '60. (MIRA 13:11)  
(Gas turbines)

KULAGIN, L.V., inzh.

Characteristics of the evaluation of the fineness of fuel atomization.  
Trudy TSNII MPS no.214:103-114 '61. (MIRA 14:8)  
(Liquid fuels) (Atomization)

KULAGIN, L.V.

Study of the operation of double-jet two-stage burners. Trudy  
TSNII MPS no.241:154-163 '62. (MIRA 15:12)  
(Gas turbines)

L 10817-55 EWT(m)/EPF(c)/EP1(w)-2/T Pr-4/Pab-24 RAEM(1)/AFETE/ASD(p)-3/  
AEDC(b) RWH/WH/JW/WE

ACCESSION NR: AT4045685

S/2917/64/000/264/0005/0019

AUTHOR: Kulagin, L. V. (Candidate of technical sciences);  
Okhotnikov, S. S. (Engineer)

TITLE: Substantiation of the requirements for the quality of the  
atomization of liquid fuel in combustion chambers with high-pressure  
jet atomizers (E)

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut  
zheleznodorozhnogo transporta. Trudy\*, no. 264, 1964. Ratsional'-  
nyye metody\* szhiganiya zhidkogo topliva i prirodnogo gaza (Efficient  
methods of liquid fuel and natural gas combustion), 5-19

TOPIC TAGS: fuel atomization, jet atomizer, locomotive combustion  
chamber, diesel fuel, coal distillate, combustion efficiency

ABSTRACT: To substantiate design requirements for high-pressure jet  
atomizers of heavy liquid fuels, the effect of the degree of atomiza-  
tion on the combustion efficiency has been studied experimentally by  
burning a diesel fuel and a compact coal coking distillate in a loco-  
motive combustion chamber under various operation conditions (idle

Card 1/4

L 10817-65

ACCESSION NR: AT4045685

3

run, 25, 50, and 100% load). Analysis of the curves obtained for the completeness of combustion ( $\eta_2$ ) vs the engine load (N) and vs the degree of atomization ( $x_0$ ) showed that the completeness of combustion for the two fuels increased with increasing load to a value of 0.96--0.98 at a load of 100%. All other conditions being equal, the completeness of combustion of the distillate was lower than that of the diesel fuel. This is attributed to the difference in the vaporization constants of the two fuels. The completeness of combustion decreased with increasing diameter of the atomized fuel drops. This dependence was more marked in the case of the distillate than in the case of the diesel fuel. The effect of the degree of atomization on the completeness of combustion decreased with increasing load. The total losses due to incompleteness of combustion connected with mechanical causes (poor atomization) decreased with increasing load. The process of mixture formation (atomization, vaporization, and the burning of drops) is the limiting factor in the burning of heavy fuels. As a result of the experimental study and the review of published theories the following equation was derived for the quality of fuel atomization:

Card 2/4

L 10817-65

ACCESSION NR: AT4045685

$$\delta_0 = 6 \times 10^{-5} \sqrt{\frac{\psi \lambda V_{\text{comb}} P}{B_T RT(\alpha L_0 + 1)}}$$

where  $\delta_0$  is the initial diameter of a drop;  $\psi$  is the coefficient representing the space occupied by the jet in the combustion chamber;  $\lambda$  is vaporization constant in cc/sec;  $V_{\text{comb}}$  is the volume of the active combustion zone in  $\text{m}^3$ ;  $P$  is the pressure in the combustion chamber;  $\gamma$  is the specific gravity of the combustion products;  $B_T$  is fuel consumption in kg/hr;  $\alpha$  is air excess coefficient; and  $L_0$  is the theoretically required amount of air for the combustion of a unit weight of fuel in kg/kg. This expression, which correlates the limiting degree of fuel atomization with operating regime, design parameters, and fuel properties, is based on the following principles postulated on the basis of the experimental data and published theories: (a) the length of the jet flame is determined by the combustion time of the largest fuel drop; (b) the burning of large drops follows the law of the burning of a single drop; (c) parameter  $\psi$  is approximately the same under all operation regimes; (d) the time of burning of the largest drop in the jet flame should not exceed the time of residence of the drop in the combustion zone. Orig. art. has: 11 figures and 3 tables.

Card 3/4

L 10817-65

ACCESSION NR: A74045685

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut ~~heleznodorozhnogo~~  
transporta, Moscow (All-Union Scientific Technical Institute of Railroad Transport)

SUBMITTED: 00 ATD PRESS: 3117 ENCL: 00

SUB CODE: FP

NO REF SOV: 016

OTHER: 002

Card 4/4

~~E 8500-65~~ EPA/EPR/ ~~Pass-1/Pass-2~~ ~~AFTR(e)/ASD(p)-3/AFTR/AFDC(e)/ASD(f)/ASD(a)~~  
~~RSD/AFWL/SSD/AEDC(b)/AFMD(t)/ESD(t)~~

ACCESSION NR: AT4045686

S/2917/64/000/264/0020/0029

AUTHOR: Kulagin, L. V. (Candidate of technical sciences); Okhotnikov, S. S.  
 (Engineer); Morozov, B. M. (Engineer)

TITLE: Selection of an efficient design pattern for a pneumatic  
 sprayer

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut  
zheleznodorozhnogo transporta. Trudy, no. 264, 1964. Ratsional'nyye  
metody\* azhiganiya zhidkogo topliva i prirodnogo gaza (Efficient  
 methods of liquid fuel and natural gas combustion), 20-29

TOPIC TAGS: aerodynamics, propulsion, pneumatic sprayer, combustion  
chamber sprayer, air fuel ration, turbulent flow, whirl, flame angle,  
atomizer

ABSTRACT: The Tsentral'nyy nauchno-issledovatel'skiy institut  
 Ministerstva putey soobshcheniya (Central Scientific Research Institute  
 of the Ministry of Communications) has conducted a series of tests,  
 both on laboratory stands and under normal operating conditions, of  
 sprayers used in heating furnaces, hearths, railroad heating systems,  
 and combustion chambers of gas-turbine locomotives. It was found

Card

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E 8500-65

ACCESSION NR: AT4045686

0

that droplets averaging 100—150  $\mu$  in size can be obtained with combustion-chamber and hearth sprayers. These sprayers also yielded good results when tested under operating conditions, though all of them showed a rather high rate of air flow (0.3—0.8 kg per 1 kg fuel). Air sprayers consuming a minimum of energy should meet the following requirements: 1) reduced fuel jet width; 2) maximum relative velocity at the fuel-air boundary; 3) increased surface contact between fuel and spray air; 4) optimum air jet thickness; 5) increased turbulence of air jets; 6) angular direction of the air flow towards the fuel flame; and 7) the possibility of establishing the flame angle needed. The authors believe that a sprayer that would meet these requirements should have fuel supplied between two air jets, and should make use of the centrifugal effect arising when an eddying fuel stream issues from the nozzle. Orig. art. has: 9 figures and 8 formulas.

ASSOCIATION: none

SUBMITTED: 30

ATD PRESS: 3104

ENCL: 00

SUB CODE: FR, ME

NO REF SOV: 013

OTHER: 001

Card

272

1. RUSSIAN: ZPA/EPA(a) 2/ENT(a)/GPE(a)/GPR/E Pr-V/Pa-4/Pt-10 AEB(F)/  
 ASD(1)/AEDC(a)/AFMDC NW/JW/RE  
 ACCESSION NR: AT4045687 S/2917/64/000/264/0030/0040<sup>2</sup>

AUTHOR: Kulagin, L. V. (Candidate of technical sciences); Dobrikov, K. F.  
 (Engineer); Okhotnikov, S. B. (Engineer)

TITLE: Analysis of methods of determining fuel losses due to mechanically  
 deficient combustion

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozh-  
 nogo transporta. Trudy\*, no. 264, 1964. Ratsional'nyye metody\* szhiganiya  
 zhidkogo topliva i prirodnogo gaza (Efficient methods of liquid fuel and natural  
 gas combustion), 30-40

TOPIC TAGS: incomplete combustion, fuel loss, mechanical combustion deficiency,  
 burning process, liquid fuel heater, aerodynamic resistance, heat transfer  
 coefficient

ABSTRACT: Various methods used in the determination of incomplete combustion are  
 reviewed. It is asserted that, in comparison to other methods for heat-engineering  
 measurements, these methods have not been developed thoroughly enough. The two  
 most promising processes are said to be the optical method and the separate-

Card 1/2

L 8827-65  
ACCESSION NR: AT4045687

afterburning method. The former can be used without expensive apparatus and yields results which require no additional processing. The latter could be used for a more circumstantial study of losses due to mechanically deficient combustion, provided the device used for burning of the combustion products is further improved. Orig. art. has: 1 table, 5 figures, and 19 formulas.

ASSOCIATION: Vsesoyuznyy nauchno issledovatel'skiy institut zheleznodorozhnogo transporta (All Union Scientific Research Institute of Railroad Transportation)  
COUNTRY: 00 AND FIGURES: 1107 ENCL: 00

SUB CODE: PP

NO REF SOV: 003

OTHER: 000

Card 2/2

KULAGIN, L.V.

Functional interchangeability of centrifugal jets. Vzuim. i tekhn.  
izm. v mashinostr.; nauch.-tekh. sbor. no.4:171-197 '64  
(MIRA 18:1)

1. KULAGIN, M.
2. USSR (600)
4. Collective Farms
7. Triumph of the Stalin collective farm system. Kolkh. proizv. 12, no. 11, 1952,
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

KULAGIN, M.

Artel

Strictly observe the regulations of the agricultural artel and protect communal property. Sots. sel'khoz., 23, No. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October, 1952 ~~1953~~, Uncl.

*K. U. Filatova, M. P.*  
KULAGIN, M. D. (Frunze)

Natal'ia Aleksandrovna Filatova. Med. sestra 17 no. 2:36 P '58.  
(FILATOVA, NATAL'IA ALEKSANDROVNA) (MIRA 11:3)

KHLAGIN, M.I., kand. tekhn. nauk

Effect of various types of rails on the residual deformations in the ballast bed. Trudy TENII MGS no. 292:5-18 '65.

Using grinding to eliminate unevenness on the roller face of rails.  
Ibid.:79-103 (MIRA 18:10)



KULAGIN, M. I.

KULAGIN, M. I. -- "The Influence of an Isolated Smooth Unevenness on the Work of the Elements of the Upper Structure of a Railroad Track." Min Railways USSR. All-Union Sci Res Inst of Railroad Transport, Moscow 1955. (Dissertations for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis' No. 39, 24 Sept 55

KULAGIN, M.I., kandidat tekhnicheskikh nauk.

Repairing rail joints by grinding and build-up. Put.i put.khoz.  
no.4:11-12 '57. (MLRA 10:5)  
(Railroads--Rails)

KULAGIN, Mikhail Ivanovich; LESEVITSKIY, Nikolay Nikolayevich;  
NAUMENKO, Valentin Sergeyevich; OVECHNIKOV, Yevgeniy  
Vasil'yevich, kand. tekhn. nauk; SOSYANTS, V.G., red.;  
TIKHONOVA, I.A., red. izd-va; LELYUKHIN, A.A., tekhn. red.

[Rail corrugation] Volnoobraznyi iznos rel'sov. Pod red.  
E.V.Ovechnikova. Moskva, Izd-vo kommun.khoz.RSFSR, 1963.  
177 p. (MIRA 16:11)

(Railroads--Rails)

KULAGIN, M. O.

26635 Legochnaya ventilyatsiya pri netuberkuleznykh zabolevaniyakh legkikh. Trudy fak. Terapevt. Kliniki (Ivan Gos, Med. In-T), vyp. 3, 1949, s. 45-53.

SO: LETOPIS' NO. 35, 1949

TRUNIN-DOUSKOY, V.N.; FIKER, A.S.; KULAGIN, M.V.

Algorithm for the recognition of a limited number of sound  
images. Soob. po vych. tekhn. no.4:9-37 '65. (MIRA 18:9)

BOBROVSKAYA, Z.; KULAGIN, N.

Green light for the propaganda train. Sov.profsotruzy 7  
no.20:50 0 '59. (MIRA 12:12)

1. Chleny prezidiuma Dorozhnogo komiteta profsoyusa rabotnikov  
zheleznodorozhnogo transporta Sverdlovskoy zheleznoy dorogi.  
(Railroads--Employees) (Industrial relations)

KULAGIN, N.

Let us improve operational accounting methods. Den. 1 kred.  
17 no.3:65-68 Mr '59. (MIRA 12:4)  
(Kuybyshev Province--Banks and banking--Accounting)  
(Machine accounting)

KUTAGIN, N.

Establishing consolidated norms for work expenditure, Sots.trud  
8 no.4:128-135 Ap '63. (MIRA 16:4)

(Production standards)



PUSHEV, G.; RUMYANTSEV, A.M., red.; KULAGIN, N., red.; GARSIA, L., red.;  
DARONYAN, M., mladshiy red.; NOGINA, N., tekhn. red.

[Agrarian question and the national liberation movement;  
materials of a discussion of Marxist agrarians held in  
Havana and Bucharest in July-September, 1960] Agrarnyi vopros  
i natsional'no-osvoboditel'noye dvizhenie; materialy obmena  
mneniyami marksistov-agrarnikov, sostoiavshegosia v iule-  
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Saratovskoy oblastnoy kontory Gosbanka (for Kulagin).  
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(Saratov Province--Savings banks--Accounting)

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SAAKOV, A.K.; GRIGOR'YAN, D.G.; CHAMOVA, K.G.; ZYKOV, Yu.V.;  
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obshchestvo, no.63) (MIRA 13:1)

1. Gosudarstvennoye astronomo-geodezicheskoye obshchestvo (GAGO)  
(for Kulagin, Kovbasyuk, Lazarevskiy, Demidovich). 2. Moskovskoye  
otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva  
(MOVAGO) (for Dagayev, Bronshten, Perova).  
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BAKULIN, P.I., otv.red.; DAGAYEV, M.M., red.; KULAGIN, S.G., red.;  
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red.; AKHLAMOV, S.N., tekhn.red.

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obshchestva (for Dagayev, Kurochkin).  
(Astronomy--Yearbooks)

KULAGIN, S.G.

IMAGE I BOOK INFORMATION

501/5721

Vsesoyuznaya astronomicheskaya konferentsiya.

Trudy 14-y Astronomicheskoy konferentsii SSSR, Kiyev, 27-30 maya 1958 g.  
(Transactions of the 14th Astronomical Conference of the USSR, held in Kiyev  
27-30 May 1958) Moscow, Izd-vo AN SSSR, 1960. 440 p. Errata slip inserted.  
1000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Glavaya astronomicheskaya observatoriya  
(Pulkovo).

Resp. Ed.: M. S. Zverev, Corresponding Member, Academy of Sciences USSR; Ed. of  
Publishing House: N. K. Zeychik; Tech. Ed.: N. A. Samaryeva.

PURPOSE: The book is intended for astronomers and astrophysicists, particularly  
those interested in astronomical research.

COVERAGE: This publication presents the Transactions of the 14th Astronomical  
Conference of the USSR, held in Kiyev 27-30 May 1958. It includes 27 reports  
and 55 scientific papers presented at the plenary meeting of the Conference

Card 1/16

Transactions of the 14th Astronomical (Cont.)

SOV/5721

and at the special sectional meetings. An appendix contains the resolutions adopted by the Conference, the composition of the committees, the agenda, and the list of participants at the Conference. A brief summary in English is given at the end of each article. References follow individual articles. The Presidium of the Astronomical Committee (Chairman M. S. Zverev), which supervised the preparation of this publication, expresses thanks to the members of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskiy, A. B. Onegina, and Kh. I. Potter.

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Kulagin, S. G., Ye. G. Demidovich, and L. D. Kovbasyuk. Observations of Bright Zenith Stars According to the Four-Group [Poltava-Type]		
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KULAGIN, S.G.

THESE I BOOK EXPLOITATION

307/1946

Nikolayev, A. A., ed.  
Stanislav y kosmos: sbornik statey (Space Stations) Collection of  
Articles) Moscow, Izd-vo AN SSSR, 1960. 144 p. 25,000 copies  
printed. (Series: Akademicheskaya kniga SSSR. Nauchno-populyarnaya  
seriya).

Resp. Ed.: A. A. Nikolayev; Compiler: V. V. Pedorov; Ed. of  
Publishing House: Ye. M. Klyus; Tech. Ed.: I. D. Morichkov.  
This book is intended both for the space specialist and  
the average reader interested in space problems.

CONTENTS: The book contains 73 short articles by various Soviet  
experts on problems connected with space travel and the launch-  
ing of artificial earth satellites and space stations. The ar-  
ticles were published in the period of 1957-1960. No person-  
alities are mentioned. There are no references.

Foreword

Korshakov, A. M., Academician. A Daring Dream of Humanity  
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5

Topolov, A. V., Academician. Great Victory of Soviet  
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15

I. ARTIFICIAL EARTH SATELLITES - TRIUMPH OF THE SOVIET  
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Prokhorov, K., Professor. Observation of Artificial Earth  
Satellites in Gorkisibirsk [July 26, 1957]

25

Kulagin, S. G., Academician. Artificial Earth Satellites [August 17,  
1957]

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2433 Information [October 8, 1957]  
Dobronravov, Y. Y., Doctor of Physical and Mathematical  
Sciences. On the Way to Mastering Interplanetary Space  
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Stanukovich, A. P., Professor. The Road to the Stars  
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38

2433 Information [November 4, 1957]  
Now the Second Sputnik Has Arranged [Izvestiya,  
November 15, 1957]

42

Kashlauer, M. A., Candidate of Physical and Mathematical  
Sciences. The Road to Future Interplanetary Flights  
[November 12, 1957]

46

Pobedonostsev, Yu. A., Professor. The Second Sputnik  
[November 15, 1957]

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Name : KULAGIN, S. G.

Remarks : S. G. KULAGIN is the author of an article entitled "Artificial Satellites of the Earth".

Source : M: Stantsii v Kosmose (Stations in Outer Space), a collection of articles, published by the USSR Academy of Sciences, Moskva, 1960, with foreword by Academicians A. N. Nesmeyanov and A. V. Topchiyev, p. 27.

88 10

KULAGIN, S.G.

Remarks on the note "Capron reticules." Geod. 1 kart. no.4:72 Ap  
'60. (MIRA 13:8)

(Surveying--Instruments)

KULAGIN, S.G.

Latitude station in Gorkiy. Biul.VAGO no.27:48-51 '60. (MIRA 13:6)  
1. Gor'kovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo  
obshchestva.  
(Gorkiy--Latitude--Measurement)

S/035/61/000/004/019/058  
A001/A101

AUTHOR: Kulagin, S. G.

TITLE: The Latitude Station of VAGO imeni Prof. K. K. Dubrovskiy at Gor'kiy

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 4, 1961, 17,  
abstract 4A214 ("Tr. 14-y Astrometr. konferentsii SSSR, 1958".  
Moscow-Leningrad, AN SSSR, 1960, 80-82, Discus. 82, Engl. summary)

TEXT: See RZhAstr, 1961, 1A126

Card 1/1

KULAGIN, S.G.; KALACHEV, A.I.

Studying latitude variations by means of an optical analyzer.  
Astron.tsir. no.209:18-20 Mr '60.  
(MIRA 13:9)

1. Gor'kovskaya shirotnaya stantsiya Vsesoyuznogo astronomo-geodezicheskogo obshchestva im.K.K.Dubrovskogo i Nauchno-issledovatel'skiy radiofizicheskiy institut, Gor'kiy.  
(Latitude variation)

KULAGIN, S. (Gor'kiy)

Noctilucent clouds. Astron. tsir. no. 213:29 J1 '60. (MIRA 14:1)  
(Clouds)

KULAGIN, S.G.; KOVBASYUK, L.D.; DAGAYEV, M.M.; LAZAREVSKIY, V.S.;  
 DEMIDOVICH, Ye.G.; BRONSHTEN, V.A.; YAKHONTOVA, N.S. (Leningrad);  
 KUROCHKIN, N.Ye.; DOKUCHAYEVA, O.D.; SHCHERBINA-SAMOYLOVA, I.S.;  
 MASEVICH, A.G.; LIPSKIY, Yu.N.; MARTYNOV, D.Ye.; ARSENT'YEV, V.V.;  
 MOROZ, V.I.; MASEVICH, A.G.; PEREL', Yu.G.; BAKULIN, P.I., otv.  
 red.; KULIKOV, G.S., red.; AKHLAMOV, S.N., tekhn. red.

[Astronomical calendar; yearbook. Variable part, 1962] Astronomicheskii kalendar'; ezhegodnik. Peremennaya chast', 1962. Red. kollegiya: P.I. Bakulin i dr. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 259 p. (Vsesoiuznoe astronomo-geodezicheskoe obshchestvo, no. 65)  
 (MIRA 14:12)

1. Gosudarstvennoye astronomo-geodezicheskoye obshchestvo (for Kalugin, Kovbasyuk, Lazarevskiy, Demidovich). 2. Moskovskoye ot-deleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva (for Dagayev, Bronshten, Kurochkin).  
 (Astronomy—Yearbooks)

39993

S/035/62/000/008/012/090  
A001/A101

3.1220

AUTHORS: Kulagin, S. G. Kalachev, A. I.

TITLE: Application of an optical analyzer to studying latitude variations

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 8, 1962, 18, abstract 8A146 (In collection: "Predvarit. rezul'taty issled. kolebaniy shirot i dvizheniya polyusov Zemli, no. 2, Moscow, AN SSSR, 1961, 125 - 129, English summary)

TEXT: A special device, optical spectral and correlation analyzer, is proposed for the analysis of astronomical phenomena with respect to their periodicity and for calculations of amplitudes and phases of their periodic components. Three films are drawn in front of the aperture, whose length is  $\bar{D}$ , of the optical analyzer. The process  $\varphi(x)$  being investigated is recorded on the one of the films, a sinusoidal signal with a smoothly varying frequency is presented on the second film (filter film), and the third one contains a sinusoidal signal in two halves in anti-phase. The aperture is illuminated with a light source, and the current at the output of photoelements is recorded. When the filter film moves relative to two other fixed ones at a certain speed  $V$ , the current at the output of photoelements contains three components which correspond to the main frequency and two

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S/035/62/000/008/012/090  
A001/A101

Application of an optical analyzer to...

side frequencies for the given speed. When the analyzer had been calibrated on the basis of processes with known periods, it is possible to single out from the process being investigated various periodic components, i.e., to find their periods, amplitudes and phases. The device was used for the analysis of observational curves of two bright zenith stars, carried out at Poltava by N. A. Popov in 1951 - 1956. Two processes were investigated: Behavior of systematic latitude differences  $\varphi_{TW} - \varphi_{EW}$ , and behavior of quantity  $f$  (see RZhAstr, 1960, no. 8, 7460) for various stars in different periods. The results were compared with the analysis data by Furich's method performed by N. A. Popov; a good agreement was found between both of them. The high efficiency of the device is noted in saving the time and calculation labor for studies of periodic processes in astronomy, in particular for studies of latitude variations. There are 7 references. X

Kh. Potter

[Abstracter's note: Complete translation]

Card 2/2

S/169/63/000/003/011/042  
D263/D307

AUTHORS: Demidovich, Ye.G. and Kulagin, S.G.

TITLE: Observations of noctilucent clouds by the Gor'kovskoye otdeleniye VAGO (Gor'kiy Branch of VAGO) in 1960

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 3, 1963, 32, abstract 3A189 (Tr. Soveshaniya po serebristym oblakam, 1961, T.3. Tallin, 1962, 157-163 (Eng. summary))

TEXT: Five sightings of noctilucent clouds were recorded in the period of observation (from May to August 1960). A converging table of patrolling of noctilucent clouds is given. The sightings were compared with synoptic conditions. It was found that during the nights of 25-26th, 26-27th, 27-28th, noctilucent clouds were observed under anticyclone conditions.  
[Abstractor's note: Complete translation]

Card 1/1

BAKULIN, P.I., otv. red.; DAGAYEV, M.M., red.; KULAGIN, S.G., red.;  
KUROCHKIN, N.Ye., red.; MASEVICH, A.G., red.; RAKHLIN, I.Ye.,  
red.; BRUDNO, K.F., tekhn. red.

[Astronomical calendar. Yearbook for 1963. Varying part]  
Astronomicheskii kalendar'. Ezhegodnik. Peremennaya chast',  
1963. Red. kollegiia: P.I.Bakulin i dr. Moskva, Fizmatgiz,  
1962. 287 p. (Vsesoiuznoe astronomo-geodezicheskoe obshchestvo,  
no.66) (MIRA 15:12)

(Astronomy--Yearbooks)

3/269/63/000/004/009/030  
A001/A101

AUTHORS: Demidovich, Ye. G., Kulagin, S. G.

TITLE: Observations of noctilucent clouds in the Gor'kiy branch of VAGO in 1960

PERIODICAL: Referativnyy zhurnal, Astronomiya, no. 4, 1963, 28, abstract 4.51.275 ("Tr. Soveshchaniya po serebristym oblakam, 1961, v. 3", Tallin, 1962, 157 - 163, English summary)

TEXT: Five cases of appearance of noctilucent clouds were noted during the period of observations (June, July, and partially also May and August 1960). The summary table of patrol service is presented. The occurrence of noctilucent clouds was compared with synoptic conditions. It turned out that in nights 25 - 26, 26 - 27 and 27 - 28 June, noctilucent clouds were observed under conditions of anticyclone.

N. R.

[Abstracter's note: Complete translation]

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